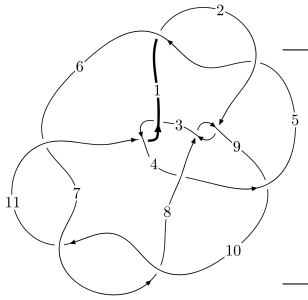
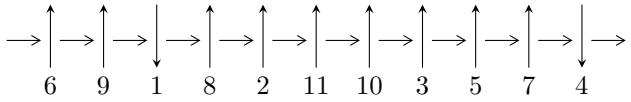
$11a_{296}$ $(K11a_{296})$



A knot diagram[1]

Linearized knot diagam



Solving Sequence

$$6,11 \underset{c_6}{\to} 4,7 \underset{c_{11}}{\to} 1 \underset{c_1}{\to} 2 \underset{c_3}{\to} 3 \underset{c_5}{\to} 5 \underset{c_{10}}{\to} 10 \underset{c_7}{\to} 8 \underset{c_9}{\to} 9 \twoheadrightarrow c_2, c_4, c_8$$

Ideals for irreducible components[2]of $X_{\mathbf{par}}$

$$I_1^u = \langle -9.00774 \times 10^{87} u^{70} - 2.18808 \times 10^{87} u^{69} + \cdots + 5.70348 \times 10^{89} b - 5.05378 \times 10^{89},$$
$$- 5.09051 \times 10^{89} u^{70} + 1.23106 \times 10^{90} u^{69} + \cdots + 5.70348 \times 10^{89} a - 1.93831 \times 10^{90},\ u^{71} - 3u^{70} + \cdots - 6u +$$
$$I_2^u = \langle u^{14} + 2u^{13} + \cdots + b + 2,$$
$$- u^{15} - 7u^{13} + 2u^{12} - 17u^{11} + 15u^{10} - 14u^9 + 41u^8 + 5u^7 + 50u^6 + 11u^5 + 25u^4 + u^3 + 4u^2 + a - 2u + 1,$$
$$u^{16} + 2u^{15} + \cdots + 2u + 1\rangle$$

* 2 irreducible components of $\dim_{\mathbb{C}} = 0$, with total 87 representations.

[1]The image of knot diagram is generated by the software "**Draw programme**" developed by Andrew Bartholomew(`http://www.layer8.co.uk/maths/draw/index.htm#Running-draw`), where we modified some parts for our purpose(`https://github.com/CATsTAILs/LinksPainter`).

[2]All coefficients of polynomials are rational numbers. But the coefficients are sometimes approximated in decimal forms when there is not enough margin.

I.

$\boldsymbol{I_1^u = \langle -9.01\times10^{87}u^{70}-2.19\times10^{87}u^{69}+\cdots+5.70\times10^{89}b-5.05\times10^{89},\ -5.09\times10^{89}u^{70}+1.23\times10^{90}u^{69}+\cdots+5.70\times10^{89}a-1.94\times10^{90},\ u^{71}-3u^{70}+\cdots-6u+1\rangle}$

(i) Arc colorings

$$a_6 = \begin{pmatrix}1\\0\end{pmatrix}$$

$$a_{11} = \begin{pmatrix}0\\u\end{pmatrix}$$

$$a_4 = \begin{pmatrix}0.892526u^{70} - 2.15844u^{69} + \cdots - 10.7951u + 3.39847\\0.0157934u^{70} + 0.00383640u^{69} + \cdots - 7.17845u + 0.886087\end{pmatrix}$$

$$a_7 = \begin{pmatrix}1\\-u^2\end{pmatrix}$$

$$a_1 = \begin{pmatrix}-2.67227u^{70} + 7.45363u^{69} + \cdots - 50.3252u + 5.65629\\0.673792u^{70} - 2.84206u^{69} + \cdots + 8.69069u - 1.27093\end{pmatrix}$$

$$a_2 = \begin{pmatrix}-1.99848u^{70} + 4.61158u^{69} + \cdots - 41.6345u + 4.38536\\0.673792u^{70} - 2.84206u^{69} + \cdots + 8.69069u - 1.27093\end{pmatrix}$$

$$a_3 = \begin{pmatrix}0.937724u^{70} - 2.44311u^{69} + \cdots + 25.2488u - 4.87921\\-0.334153u^{70} + 1.04108u^{69} + \cdots - 5.67570u + 1.49367\end{pmatrix}$$

$$a_5 = \begin{pmatrix}1.09394u^{70} - 2.86528u^{69} + \cdots - 13.4038u + 3.36574\\0.147468u^{70} - 0.313880u^{69} + \cdots - 6.79147u + 0.840422\end{pmatrix}$$

$$a_{10} = \begin{pmatrix}-u\\u^3+u\end{pmatrix}$$

$$a_8 = \begin{pmatrix}u^2+1\\-u^4-2u^2\end{pmatrix}$$

$$a_9 = \begin{pmatrix}-1.33394u^{70} + 4.17244u^{69} + \cdots - 28.8076u + 3.70746\\-0.113697u^{70} + 0.700148u^{69} + \cdots + 8.94630u - 0.936023\end{pmatrix}$$

$$a_9 = \begin{pmatrix}-1.33394u^{70} + 4.17244u^{69} + \cdots - 28.8076u + 3.70746\\-0.113697u^{70} + 0.700148u^{69} + \cdots + 8.94630u - 0.936023\end{pmatrix}$$

(ii) Obstruction class $= -1$

(iii) Cusp Shapes $= -0.389233u^{70} + 2.15935u^{69} + \cdots - 15.8626u + 7.58410$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1, c_5	$u^{71} - u^{70} + \cdots - 1361u - 281$
c_2, c_8	$u^{71} + u^{70} + \cdots + 117u - 76$
c_3, c_{11}	$u^{71} - 4u^{70} + \cdots - 6u - 13$
c_4	$u^{71} - 5u^{70} + \cdots - 8378u - 1711$
c_6, c_7, c_{10}	$u^{71} + 3u^{70} + \cdots - 6u - 1$
c_9	$u^{71} + 18u^{69} + \cdots - 57052u - 26357$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{71} + 59y^{70} + \cdots - 1212265y - 78961$
c_2, c_8	$y^{71} + 49y^{70} + \cdots - 79487y - 5776$
c_3, c_{11}	$y^{71} + 36y^{70} + \cdots + 3572y - 169$
c_4	$y^{71} + 19y^{70} + \cdots - 36750038y - 2927521$
c_6, c_7, c_{10}	$y^{71} + 73y^{70} + \cdots - 40y - 1$
c_9	$y^{71} + 36y^{70} + \cdots - 14918431652y - 694691449$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.876704 + 0.516917I$ $a = 0.018044 + 1.313340I$ $b = 0.76980 - 1.61963I$	$-4.30422 + 11.39740I$	0
$u = 0.876704 - 0.516917I$ $a = 0.018044 - 1.313340I$ $b = 0.76980 + 1.61963I$	$-4.30422 - 11.39740I$	0
$u = -0.383449 + 0.883215I$ $a = 1.004320 - 0.563786I$ $b = 0.979718 + 0.596029I$	$1.53313 - 2.60659I$	0
$u = -0.383449 - 0.883215I$ $a = 1.004320 + 0.563786I$ $b = 0.979718 - 0.596029I$	$1.53313 + 2.60659I$	0
$u = -0.952818 + 0.469187I$ $a = -0.006177 - 1.082100I$ $b = 0.81454 + 1.61178I$	$0.03727 - 4.92803I$	0
$u = -0.952818 - 0.469187I$ $a = -0.006177 + 1.082100I$ $b = 0.81454 - 1.61178I$	$0.03727 + 4.92803I$	0
$u = -0.276228 + 0.874801I$ $a = 1.209770 + 0.164013I$ $b = -0.335540 + 0.242745I$	$-3.52903 - 0.05215I$	0
$u = -0.276228 - 0.874801I$ $a = 1.209770 - 0.164013I$ $b = -0.335540 - 0.242745I$	$-3.52903 + 0.05215I$	0
$u = 0.850893 + 0.705002I$ $a = -0.934029 - 0.345819I$ $b = 0.051753 + 1.245970I$	$-4.79765 - 5.63917I$	0
$u = 0.850893 - 0.705002I$ $a = -0.934029 + 0.345819I$ $b = 0.051753 - 1.245970I$	$-4.79765 + 5.63917I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.805118 + 0.297549I$ $a = -0.302889 + 0.998924I$ $b = 0.85415 - 1.55688I$	$-5.56347 - 1.22600I$	0
$u = 0.805118 - 0.297549I$ $a = -0.302889 - 0.998924I$ $b = 0.85415 + 1.55688I$	$-5.56347 + 1.22600I$	0
$u = 0.166244 + 1.177330I$ $a = 1.040880 + 0.200780I$ $b = 0.133932 - 0.567605I$	$-2.99865 + 0.00829I$	0
$u = 0.166244 - 1.177330I$ $a = 1.040880 - 0.200780I$ $b = 0.133932 + 0.567605I$	$-2.99865 - 0.00829I$	0
$u = 0.555602 + 0.566754I$ $a = -1.208260 + 0.562334I$ $b = 0.064611 + 0.675670I$	$-6.67179 + 5.48975I$	$1.10039 - 5.62534I$
$u = 0.555602 - 0.566754I$ $a = -1.208260 - 0.562334I$ $b = 0.064611 - 0.675670I$	$-6.67179 - 5.48975I$	$1.10039 + 5.62534I$
$u = -0.708755 + 0.346572I$ $a = -0.357040 + 1.214250I$ $b = 0.113056 - 1.348490I$	$3.03135 - 1.49469I$	$12.21917 + 1.87835I$
$u = -0.708755 - 0.346572I$ $a = -0.357040 - 1.214250I$ $b = 0.113056 + 1.348490I$	$3.03135 + 1.49469I$	$12.21917 - 1.87835I$
$u = -0.742406 + 0.959669I$ $a = -0.626210 + 0.097246I$ $b = -0.305996 - 1.152800I$	$-1.34036 - 1.05400I$	0
$u = -0.742406 - 0.959669I$ $a = -0.626210 - 0.097246I$ $b = -0.305996 + 1.152800I$	$-1.34036 + 1.05400I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.190903+0.733880I$ $a=\ \ 0.025776-0.589218I$ $b=-0.365991-0.359203I$	$-1.89003-1.47574I$	$1.69844+5.10987I$
$u=-0.190903-0.733880I$ $a=\ \ 0.025776+0.589218I$ $b=-0.365991+0.359203I$	$-1.89003+1.47574I$	$1.69844-5.10987I$
$u=\ \ 0.569734+0.484141I$ $a=-0.61345-1.53356I$ $b=-0.04604+1.49792I$	$0.82584+5.58849I$	$6.71893-8.23388I$
$u=\ \ 0.569734-0.484141I$ $a=-0.61345+1.53356I$ $b=-0.04604-1.49792I$	$0.82584-5.58849I$	$6.71893+8.23388I$
$u=-0.653667+0.146302I$ $a=\ \ 0.87774+1.79876I$ $b=-0.379281-1.055800I$	$-1.15932-3.38797I$	$5.90325+4.76662I$
$u=-0.653667-0.146302I$ $a=\ \ 0.87774-1.79876I$ $b=-0.379281+1.055800I$	$-1.15932+3.38797I$	$5.90325-4.76662I$
$u=\ \ 0.000769+1.346270I$ $a=\ \ 0.592643+0.337447I$ $b=\ \ 0.339498-1.090940I$	$-3.15202-1.08459I$	0
$u=\ \ 0.000769-1.346270I$ $a=\ \ 0.592643-0.337447I$ $b=\ \ 0.339498+1.090940I$	$-3.15202+1.08459I$	0
$u=-0.212829+1.337500I$ $a=-0.545515+0.939906I$ $b=-0.73928-1.47728I$	$-5.79082-6.48362I$	0
$u=-0.212829-1.337500I$ $a=-0.545515-0.939906I$ $b=-0.73928+1.47728I$	$-5.79082+6.48362I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.096488 + 1.359540I$ $a = 0.246854 - 0.294342I$ $b = -0.34390 + 1.89289I$	$-8.06307 + 3.83737I$	0
$u = 0.096488 - 1.359540I$ $a = 0.246854 + 0.294342I$ $b = -0.34390 - 1.89289I$	$-8.06307 - 3.83737I$	0
$u = 0.177258 + 1.357570I$ $a = -0.009719 - 0.403632I$ $b = -0.83501 + 1.55183I$	$-8.10631 + 3.87908I$	0
$u = 0.177258 - 1.357570I$ $a = -0.009719 + 0.403632I$ $b = -0.83501 - 1.55183I$	$-8.10631 - 3.87908I$	0
$u = 0.123250 + 1.376920I$ $a = -0.810111 - 0.684516I$ $b = -0.97380 + 1.34302I$	$-4.05458 + 4.15368I$	0
$u = 0.123250 - 1.376920I$ $a = -0.810111 + 0.684516I$ $b = -0.97380 - 1.34302I$	$-4.05458 - 4.15368I$	0
$u = 0.018897 + 1.385550I$ $a = -1.241690 - 0.236182I$ $b = -1.362110 + 0.377613I$	$-3.28165 + 2.64244I$	0
$u = 0.018897 - 1.385550I$ $a = -1.241690 + 0.236182I$ $b = -1.362110 - 0.377613I$	$-3.28165 - 2.64244I$	0
$u = 0.481402 + 0.355980I$ $a = 0.994444 - 0.755690I$ $b = -0.273431 + 0.381017I$	$-2.67458 + 1.55489I$	$2.82989 - 4.24710I$
$u = 0.481402 - 0.355980I$ $a = 0.994444 + 0.755690I$ $b = -0.273431 - 0.381017I$	$-2.67458 - 1.55489I$	$2.82989 + 4.24710I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.06503+1.42398I$ $a=\ \ 0.662560-0.647023I$ $b=\ \ 0.148769+0.759204I$	$-4.60407-3.10250I$	0
$u=-0.06503-1.42398I$ $a=\ \ 0.662560+0.647023I$ $b=\ \ 0.148769-0.759204I$	$-4.60407+3.10250I$	0
$u=-0.05232+1.45453I$ $a=-0.735490+0.335267I$ $b=-2.09725-1.71117I$	$-10.25020-4.13818I$	0
$u=-0.05232-1.45453I$ $a=-0.735490-0.335267I$ $b=-2.09725+1.71117I$	$-10.25020+4.13818I$	0
$u=-0.25007+1.45878I$ $a=-0.547129+0.418576I$ $b=-0.61317-1.54749I$	$-2.82172-4.95017I$	0
$u=-0.25007-1.45878I$ $a=-0.547129-0.418576I$ $b=-0.61317+1.54749I$	$-2.82172+4.95017I$	0
$u=\ \ 0.34183+1.48836I$ $a=\ \ 0.599521+0.532622I$ $b=\ \ 1.82790-1.33312I$	$-11.32690+3.07672I$	0
$u=\ \ 0.34183-1.48836I$ $a=\ \ 0.599521-0.532622I$ $b=\ \ 1.82790+1.33312I$	$-11.32690-3.07672I$	0
$u=\ \ 0.19479+1.51543I$ $a=-0.459769+0.827837I$ $b=\ \ 0.114814-0.131344I$	$-13.4581+8.2834I$	0
$u=\ \ 0.19479-1.51543I$ $a=-0.459769-0.827837I$ $b=\ \ 0.114814+0.131344I$	$-13.4581-8.2834I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.19607 + 1.51746I$ $a = -0.670319 - 0.456053I$ $b = -0.52830 + 1.86550I$	$-5.78366 + 8.41270I$	0
$u = 0.19607 - 1.51746I$ $a = -0.670319 + 0.456053I$ $b = -0.52830 - 1.86550I$	$-5.78366 - 8.41270I$	0
$u = -0.14626 + 1.54836I$ $a = -0.223801 - 0.693017I$ $b = -0.069496 + 0.154353I$	$-9.50943 - 3.27093I$	0
$u = -0.14626 - 1.54836I$ $a = -0.223801 + 0.693017I$ $b = -0.069496 - 0.154353I$	$-9.50943 + 3.27093I$	0
$u = 0.420094 + 0.080132I$ $a = 0.54577 - 2.67604I$ $b = -0.403742 + 1.076110I$	$0.66143 + 2.25848I$	$4.43494 + 0.57709I$
$u = 0.420094 - 0.080132I$ $a = 0.54577 + 2.67604I$ $b = -0.403742 - 1.076110I$	$0.66143 - 2.25848I$	$4.43494 - 0.57709I$
$u = 0.31389 + 1.54199I$ $a = 0.690616 + 0.664349I$ $b = 1.38403 - 1.60738I$	$-10.9839 + 15.7452I$	0
$u = 0.31389 - 1.54199I$ $a = 0.690616 - 0.664349I$ $b = 1.38403 + 1.60738I$	$-10.9839 - 15.7452I$	0
$u = -0.32953 + 1.53939I$ $a = 0.683207 - 0.587683I$ $b = 1.50202 + 1.41422I$	$-6.50526 - 9.54418I$	0
$u = -0.32953 - 1.53939I$ $a = 0.683207 + 0.587683I$ $b = 1.50202 - 1.41422I$	$-6.50526 + 9.54418I$	0

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u = 0.350278 + 0.238783I$ $a = 2.06396 + 2.08046I$ $b = -0.108087 - 0.747622I$	$0.99996 - 2.28586I$	$9.25040 + 1.43697I$
$u = 0.350278 - 0.238783I$ $a = 2.06396 - 2.08046I$ $b = -0.108087 + 0.747622I$	$0.99996 + 2.28586I$	$9.25040 - 1.43697I$
$u = -0.380862$ $a = 0.547449$ $b = 0.250181$	0.684340	14.6690
$u = -0.00681 + 1.62560I$ $a = 0.370034 + 0.196828I$ $b = -0.791967 - 0.211199I$	$-12.04640 - 0.66622I$	0
$u = -0.00681 - 1.62560I$ $a = 0.370034 - 0.196828I$ $b = -0.791967 + 0.211199I$	$-12.04640 + 0.66622I$	0
$u = 0.18915 + 1.65621I$ $a = -0.370196 + 0.320048I$ $b = -0.241587 + 0.177123I$	$-12.95250 - 1.69138I$	0
$u = 0.18915 - 1.65621I$ $a = -0.370196 - 0.320048I$ $b = -0.241587 - 0.177123I$	$-12.95250 + 1.69138I$	0
$u = 0.033849 + 0.258899I$ $a = 4.95781 - 0.70188I$ $b = -0.156325 - 0.185251I$	$1.05941 - 2.33356I$	$9.20153 - 2.18443I$
$u = 0.033849 - 0.258899I$ $a = 4.95781 + 0.70188I$ $b = -0.156325 + 0.185251I$	$1.05941 + 2.33356I$	$9.20153 + 2.18443I$
$u = -0.100795 + 0.225172I$ $a = -2.19587 + 2.54396I$ $b = -1.25338 - 1.68214I$	$-4.54187 - 3.47725I$	$1.03919 + 11.73810I$

Solutions to I_1^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.100795-0.225172I$		
$a=-2.19587-2.54396I$	$-4.54187+3.47725I$	$1.03919-11.73810I$
$b=-1.25338+1.68214I$		

II.

$\boldsymbol{I_2^u = \langle u^{14}+2u^{13}+\cdots+b+2,\ -u^{15}-7u^{13}+\cdots+a+1,\ u^{16}+2u^{15}+\cdots+2u+1\rangle}$

(i) Arc colorings

$$a_6 = \begin{pmatrix} 1 \\ 0 \end{pmatrix}$$

$$a_{11} = \begin{pmatrix} 0 \\ u \end{pmatrix}$$

$$a_4 = \begin{pmatrix} u^{15}+7u^{13}+\cdots+2u-1 \\ -u^{14}-2u^{13}+\cdots-4u-2 \end{pmatrix}$$

$$a_7 = \begin{pmatrix} 1 \\ -u^2 \end{pmatrix}$$

$$a_1 = \begin{pmatrix} -u^{14}-3u^{13}+\cdots-3u-4 \\ -u^{15}-2u^{14}+\cdots+2u^2-u \end{pmatrix}$$

$$a_2 = \begin{pmatrix} -u^{15}-3u^{14}+\cdots-4u-4 \\ -u^{15}-2u^{14}+\cdots+2u^2-u \end{pmatrix}$$

$$a_3 = \begin{pmatrix} -u^{15}-u^{14}+\cdots-u-2 \\ -u^{14}-2u^{13}+\cdots-4u-1 \end{pmatrix}$$

$$a_5 = \begin{pmatrix} u^{15}+7u^{13}+\cdots-6u^2-1 \\ -u^5-u^4-3u^3-2u^2-2u-1 \end{pmatrix}$$

$$a_{10} = \begin{pmatrix} -u \\ u^3+u \end{pmatrix}$$

$$a_8 = \begin{pmatrix} u^2+1 \\ -u^4-2u^2 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -2u^{15}-4u^{14}+\cdots-u-1 \\ -u^{13}-2u^{12}+\cdots-9u^3-2u^2 \end{pmatrix}$$

$$a_9 = \begin{pmatrix} -2u^{15}-4u^{14}+\cdots-u-1 \\ -u^{13}-2u^{12}+\cdots-9u^3-2u^2 \end{pmatrix}$$

(ii) Obstruction class $= 1$

(iii) Cusp Shapes $= 8u^{15}+11u^{14}+75u^{13}+88u^{12}+284u^{11}+269u^{10}+546u^9+386u^8+544u^7+244u^6+249u^5+41u^4+44u^3-2u^2+14u+7$

(iv) u-Polynomials at the component

Crossings	u-Polynomials at each crossing
c_1	$u^{16}+8u^{14}+\cdots+3u+1$
c_2	$u^{16}+5u^{14}+\cdots+4u^2+1$
c_3	$u^{16}+3u^{15}+\cdots+8u^2+1$
c_4	$u^{16}+u^{13}+\cdots-7u^2+1$
c_5	$u^{16}+8u^{14}+\cdots-3u+1$
c_6, c_7	$u^{16}+2u^{15}+\cdots+2u+1$
c_8	$u^{16}+5u^{14}+\cdots+4u^2+1$
c_9	$u^{16}+u^{15}+\cdots+6u^2+1$
c_{10}	$u^{16}-2u^{15}+\cdots-2u+1$
c_{11}	$u^{16}-3u^{15}+\cdots+8u^2+1$

(v) Riley Polynomials at the component

Crossings	Riley Polynomials at each crossing
c_1, c_5	$y^{16} + 16y^{15} + \cdots + 13y + 1$
c_2, c_8	$y^{16} + 10y^{15} + \cdots + 8y + 1$
c_3, c_{11}	$y^{16} + 13y^{15} + \cdots + 16y + 1$
c_4	$y^{16} - 2y^{14} + \cdots - 14y + 1$
c_6, c_7, c_{10}	$y^{16} + 18y^{15} + \cdots + 4y + 1$
c_9	$y^{16} + 5y^{15} + \cdots + 12y + 1$

(vi) Complex Volumes and Cusp Shapes

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.569342+1.028560I$ $a=\ \ 0.720411-0.176385I$ $b=\ \ 0.175330+0.986553I$	$-0.549860-0.999226I$	$9.35133+0.51407I$
$u=-0.569342-1.028560I$ $a=\ \ 0.720411+0.176385I$ $b=\ \ 0.175330-0.986553I$	$-0.549860+0.999226I$	$9.35133-0.51407I$
$u=-0.324061+0.738568I$ $a=-1.22712+0.86928I$ $b=-1.167210-0.652672I$	$0.66827-2.96805I$	$2.18241+5.99537I$
$u=-0.324061-0.738568I$ $a=-1.22712-0.86928I$ $b=-1.167210+0.652672I$	$0.66827+2.96805I$	$2.18241-5.99537I$
$u=-0.051468+1.266120I$ $a=\ \ 1.278820+0.261068I$ $b=\ \ 0.427098+0.016868I$	$-2.01678+1.79591I$	$6.94894-2.52988I$
$u=-0.051468-1.266120I$ $a=\ \ 1.278820-0.261068I$ $b=\ \ 0.427098-0.016868I$	$-2.01678-1.79591I$	$6.94894+2.52988I$
$u=\ \ 0.168287+1.312890I$ $a=-0.500784-0.449767I$ $b=-1.55170+2.17075I$	$-7.83940+4.87519I$	$1.58436-7.54746I$
$u=\ \ 0.168287-1.312890I$ $a=-0.500784+0.449767I$ $b=-1.55170-2.17075I$	$-7.83940-4.87519I$	$1.58436+7.54746I$
$u=-0.18168+1.42029I$ $a=-0.619856+0.736296I$ $b=-0.71287-1.31954I$	$-4.56313-5.40512I$	$2.67129+5.45372I$
$u=-0.18168-1.42029I$ $a=-0.619856-0.736296I$ $b=-0.71287+1.31954I$	$-4.56313+5.40512I$	$2.67129-5.45372I$

Solutions to I_2^u	$\sqrt{-1}(\mathrm{vol}+\sqrt{-1}CS)$	Cusp shape
$u=-0.458536+0.295995I$ $a=-0.30047+2.31517I$ $b=-0.443631-0.902773I$	$0.92810-3.00419I$	$8.30090+9.42735I$
$u=-0.458536-0.295995I$ $a=-0.30047-2.31517I$ $b=-0.443631+0.902773I$	$0.92810+3.00419I$	$8.30090-9.42735I$
$u=\ \ 0.349990+0.344981I$ $a=\ \ 1.33662+0.55629I$ $b=-0.74370-1.67764I$	$-4.41668-2.95405I$	$4.95739-2.07123I$
$u=\ \ 0.349990-0.344981I$ $a=\ \ 1.33662-0.55629I$ $b=-0.74370+1.67764I$	$-4.41668+2.95405I$	$4.95739+2.07123I$
$u=\ \ 0.06681+1.63596I$ $a=\ \ 0.312384-0.028797I$ $b=-0.483326-0.701860I$	$-11.81930-1.32705I$	$4.00338+5.75939I$
$u=\ \ 0.06681-1.63596I$ $a=\ \ 0.312384+0.028797I$ $b=-0.483326+0.701860I$	$-11.81930+1.32705I$	$4.00338-5.75939I$

III. u-Polynomials

Crossings	u-Polynomials at each crossing
c_1	$(u^{16}+8u^{14}+\cdots+3u+1)(u^{71}-u^{70}+\cdots-1361u-281)$
c_2	$(u^{16}+5u^{14}+\cdots+4u^2+1)(u^{71}+u^{70}+\cdots+117u-76)$
c_3	$(u^{16}+3u^{15}+\cdots+8u^2+1)(u^{71}-4u^{70}+\cdots-6u-13)$
c_4	$(u^{16}+u^{13}+\cdots-7u^2+1)(u^{71}-5u^{70}+\cdots-8378u-1711)$
c_5	$(u^{16}+8u^{14}+\cdots-3u+1)(u^{71}-u^{70}+\cdots-1361u-281)$
c_6, c_7	$(u^{16}+2u^{15}+\cdots+2u+1)(u^{71}+3u^{70}+\cdots-6u-1)$
c_8	$(u^{16}+5u^{14}+\cdots+4u^2+1)(u^{71}+u^{70}+\cdots+117u-76)$
c_9	$(u^{16}+u^{15}+\cdots+6u^2+1)(u^{71}+18u^{69}+\cdots-57052u-26357)$
c_{10}	$(u^{16}-2u^{15}+\cdots-2u+1)(u^{71}+3u^{70}+\cdots-6u-1)$
c_{11}	$(u^{16}-3u^{15}+\cdots+8u^2+1)(u^{71}-4u^{70}+\cdots-6u-13)$

IV. Riley Polynomials

Crossings	Riley Polynomials at each crossing
c_1, c_5	$(y^{16}+16y^{15}+\cdots+13y+1)(y^{71}+59y^{70}+\cdots-1212265y-78961)$
c_2, c_8	$(y^{16}+10y^{15}+\cdots+8y+1)(y^{71}+49y^{70}+\cdots-79487y-5776)$
c_3, c_{11}	$(y^{16}+13y^{15}+\cdots+16y+1)(y^{71}+36y^{70}+\cdots+3572y-169)$
c_4	$(y^{16}-2y^{14}+\cdots-14y+1)$ $\cdot(y^{71}+19y^{70}+\cdots-36750038y-2927521)$
c_6, c_7, c_{10}	$(y^{16}+18y^{15}+\cdots+4y+1)(y^{71}+73y^{70}+\cdots-40y-1)$
c_9	$(y^{16}+5y^{15}+\cdots+12y+1)$ $\cdot(y^{71}+36y^{70}+\cdots-14918431652y-694691449)$